

FIG.1

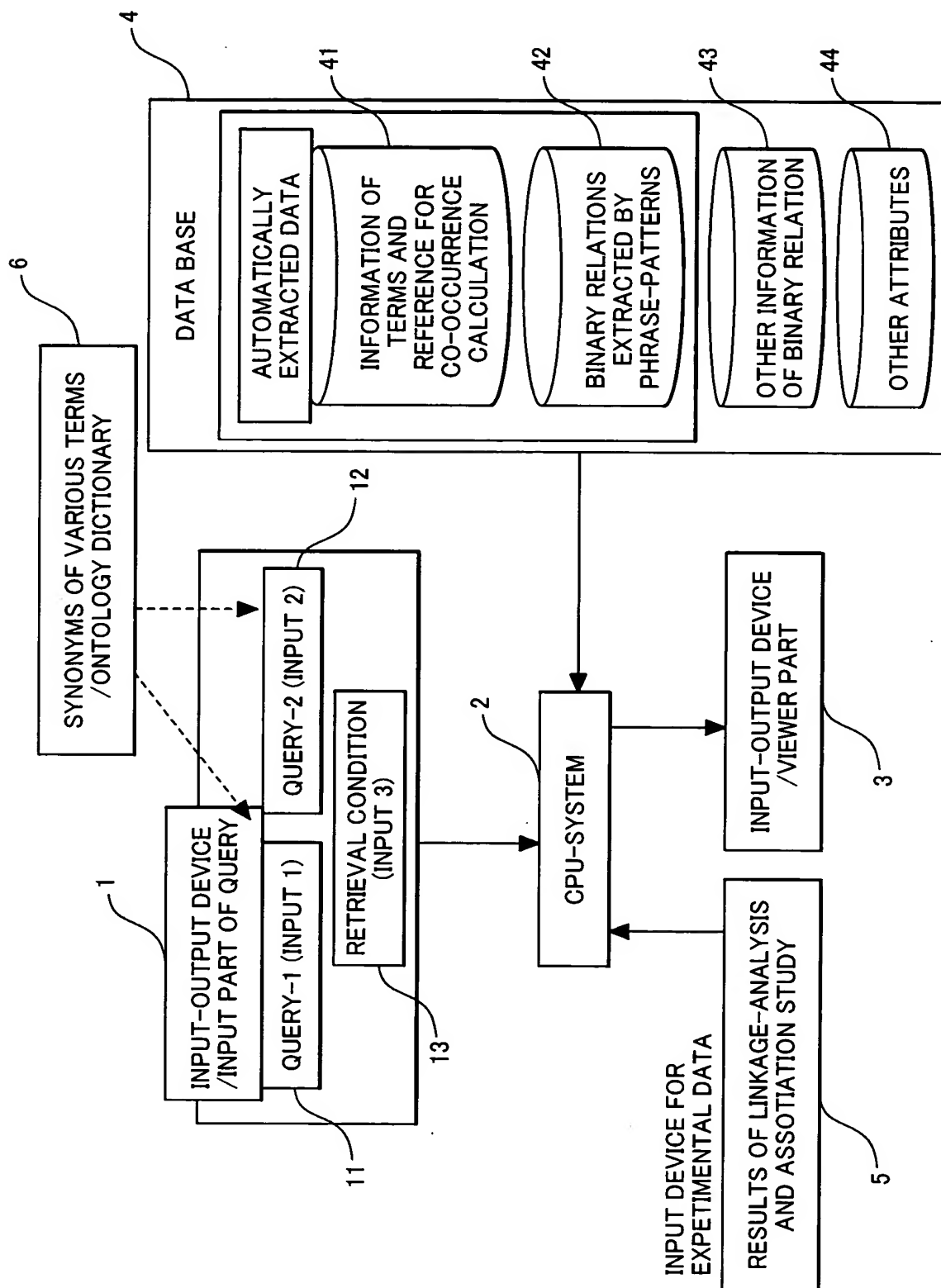


FIG. 2

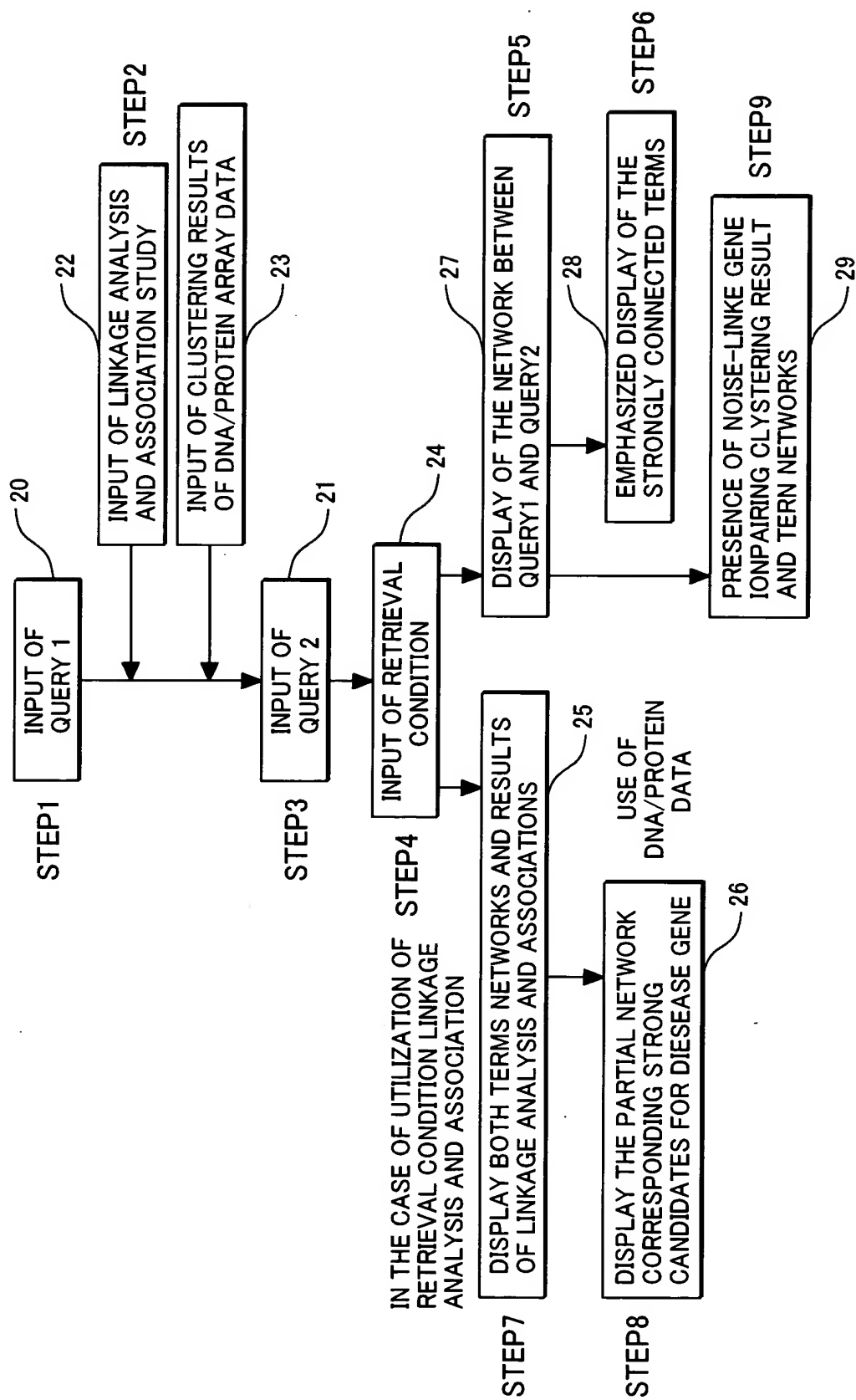


FIG.3

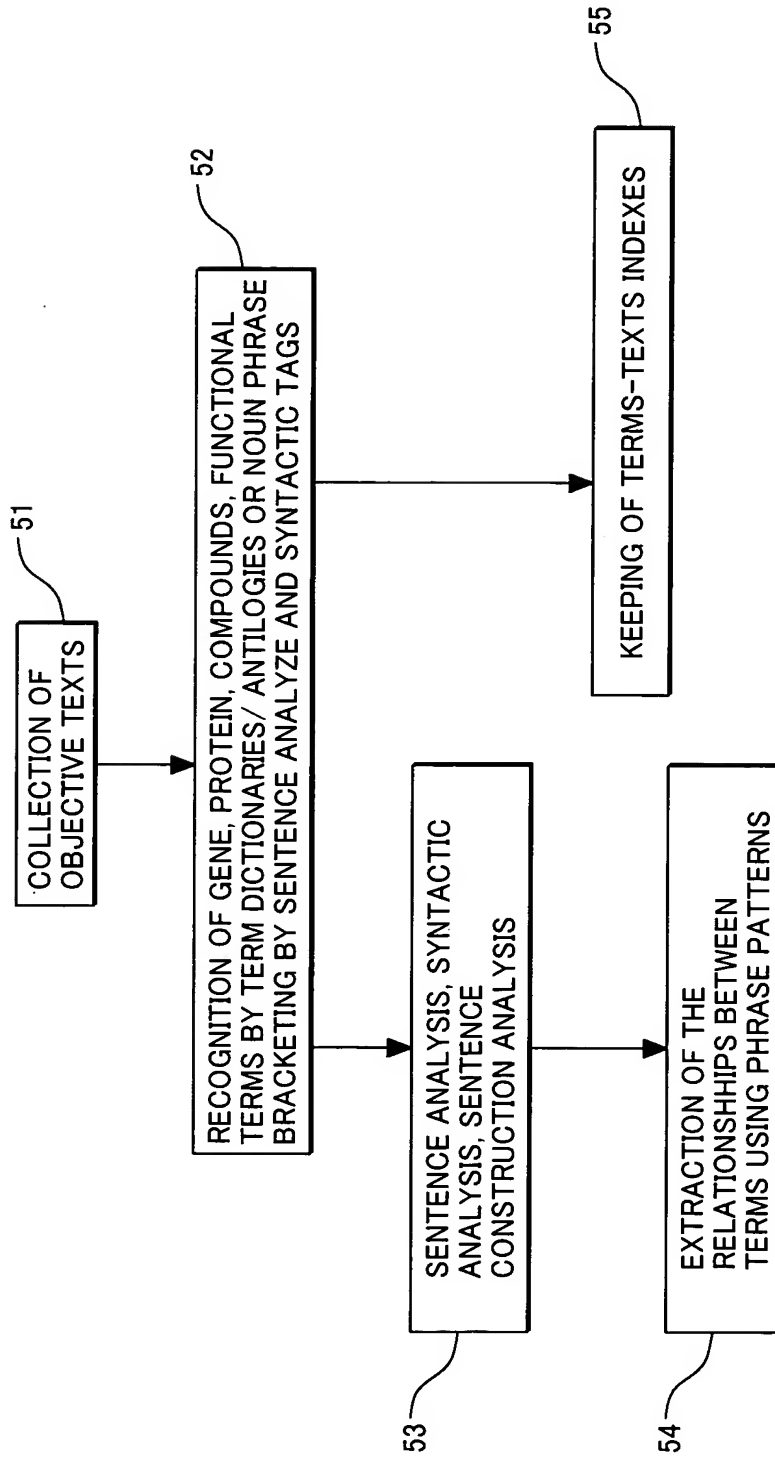


FIG.4

PROTEIN-ID1 /CONCEPT1	PROTEIN-ID2 /CONCEPT2	RELIABILITY	EXPERIMENTAL METHOD	ORGANISM	TEXT-ID
GSC004154	GSC004160	0.95	YEAST-TWO HYBRID, MASS SPECTROMETRY	S.cerevisiae	1,2
GSC004168	GSC004154	0.9	YEAST-TWO HYBRID, MASS SPECTROMETRY	S.cerevisiae	3
CELL_DEATH	APOPTOSIS	0.8	---	H.sapiens	5
GHS001223	APOPTOSIS	0.9	---	H.sapiens	4
GHS001223	BH2 DOMAIN	0.5	---	H.sapiens	6
GHS001223	GHS016577	0.9	---	H.sapiens	7
...	...			H.sapiens	

FIG.5

PROTEIN-ID1 /CONCEPT1	PUBMED-ID	TERM FREQUENCY	THE POSITION OF TERM IN THE TEXT (BYTE)	TEXT-ID
GSC004154	12909353	3	305,777,930	101
GSC004154	12867033	1	922	102
GSC004154	12827445	1	417	103
GSC004154	12808050	2	607,1272	104
...	...			

FIG.6

ID	GENE NAME	ORGANISM	SUBCELLULAR LOCALIZATION	SEQUENCE INFORMATION	DOMAIN INFORMATION	EXPRESSION INFORMATION
GSC004154	STE11	S. cerevisiae	CYTOPLASMIC	GCE000836:1e-22, GCE011584:5e-21	Ser/Thr PROTEIN KINASE DOMAIN	
GSC004160	STE20	S. cerevisiae	CYTOPLASMIC	GCE000836:4e-32, GCE000678:1e-38	Ser/Thr PROTEIN KINASE DOMAIN	
GSC004168	STE7	S. cerevisiae	CYTOPLASMIC	GCE000822:9e-45, GCE000667:1e-31	Ser/Thr PROTEIN KINASE DOMAIN	
GHS012062	MAPK1	H. sapiens	CYTOPLASMIC	GCE000884:1e-164,	Ser/Thr PROTEIN KINASE DOMAIN	NEUROBRASTOMA COT, LYMPH, BRAIN,
GCE011584	K06H7.1	C. elegans	-	GSC004154:5e-21,		
GHS001223	BCL-2	H. sapiens	MITOCHONDRIAL MEMBRANE, INTRACELLULAR MEMBRANE OF THE NUCLEAR ENVELOPE, THE ENDOPLASMIC RETICULUM.		BH4 DOMAIN BCL-2 DOMAIN	BLOOD, KIDNEY, SKELTAL LYMPHOCYTE, ...
GHS016577	PSEN1	H. sapiens	INTEGRAL MEMBRANCE PROTEIN, GOLDI AND ENDOPLASMIC RETICULUM	GCE001332:7e-95, GCE000580:8e-37	PROTEIN 1 DOMAIN	BRAIN, SKIN
...		...				

FIG.7

TEST ID	IMPACT FACTOR	PUBMED ID	JOURNAL	EXTRACTED SENTENCE
1	8.4	108837245	CURR BIOL	OUR RESULTS SUGGEST THAT, IN RESPONSE TO MULTIPLE EXTRACELLULAR SIGNALS, PHOSPHORYLATION OF STE11P BY STE20P REMOVES AN AMINO-TERMINAL INHIBITORY DOMAIN, LEARNING TO ACTIVATION OF THE STE 11 PROTEIN KINASE.
2	8.4	10837245	CURR. BIOL.	STE 20P PHOSPHORYLATED STE11P ON SER302 AND/OR SER306 AND THR307 IN YEAST, RESIDUES THAT ARE CONSERVED IN MEKKS OF OTHER ORGANISMS.
3	10.8	8052657	PNAS	INTERACTION BETWEEN STE7 AND STE11 IS BRIDGED BY STE5, SUGGESTING THE FORMATION OF A MULTIPROTEIN COMPLEX.
4	4.9	12769779	CURR MED CHEM	BCL2 PROTEINS ARE KEY MEDIATORS OF THE PROCESS OF APOPTOSIS AND LIGANDS TO THESE FAMILY OF PROTEINS HAVE BEEN DESCRIBED USING MODERN COMBINATIONAL.
...	...			

FIG.8

TERMS (CONCEPTS)	UPPERTERMS (CONCEPTS)
ste7	MAPK
MAP2K1	MAPK2K
MAP2KK2	MAPK2K
ste11	MAP2K
ste20	MAP3K
MAPK	ser/thr kinase
EGFR	RTK
VEGF	RTK
RRAS	RAS
NRAS	RAS
KRAS2	RAS
BRAF	RAF
RAF1	RAF
...	

FIG.9

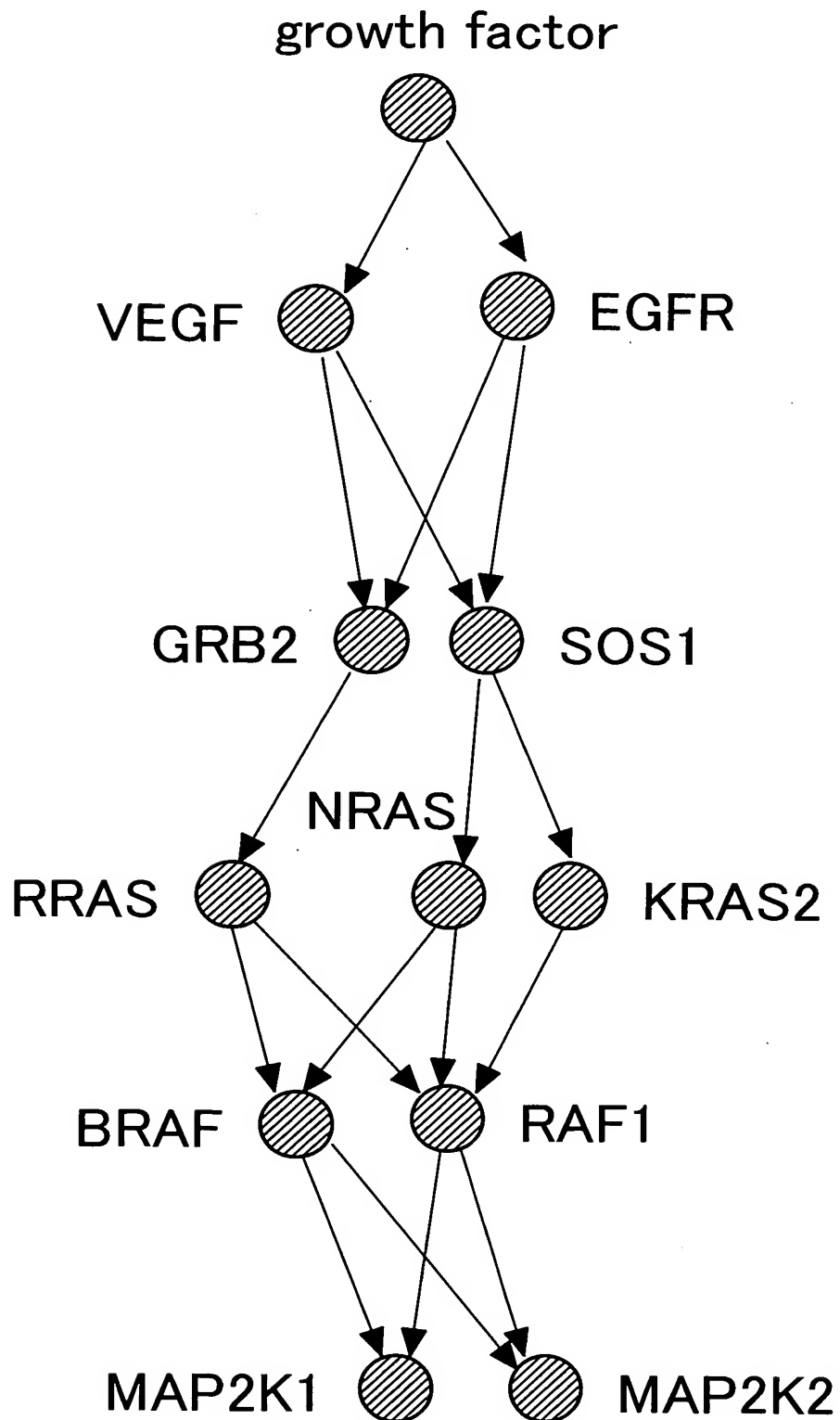


FIG.10

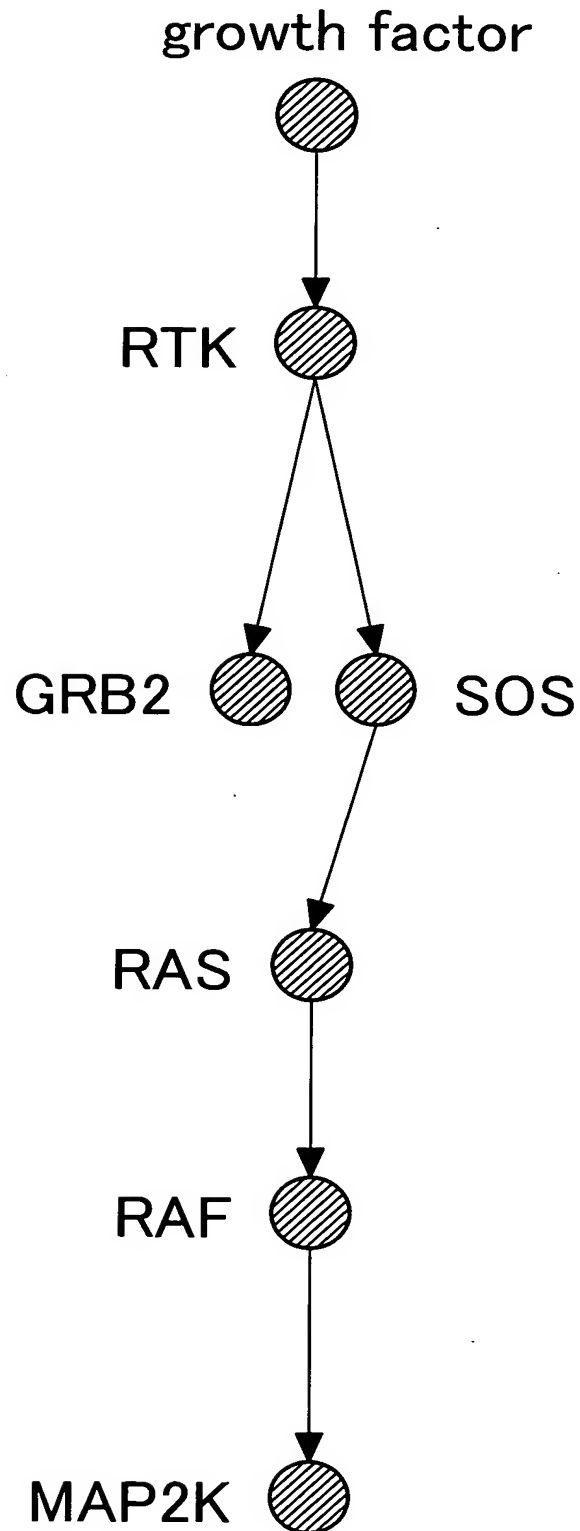
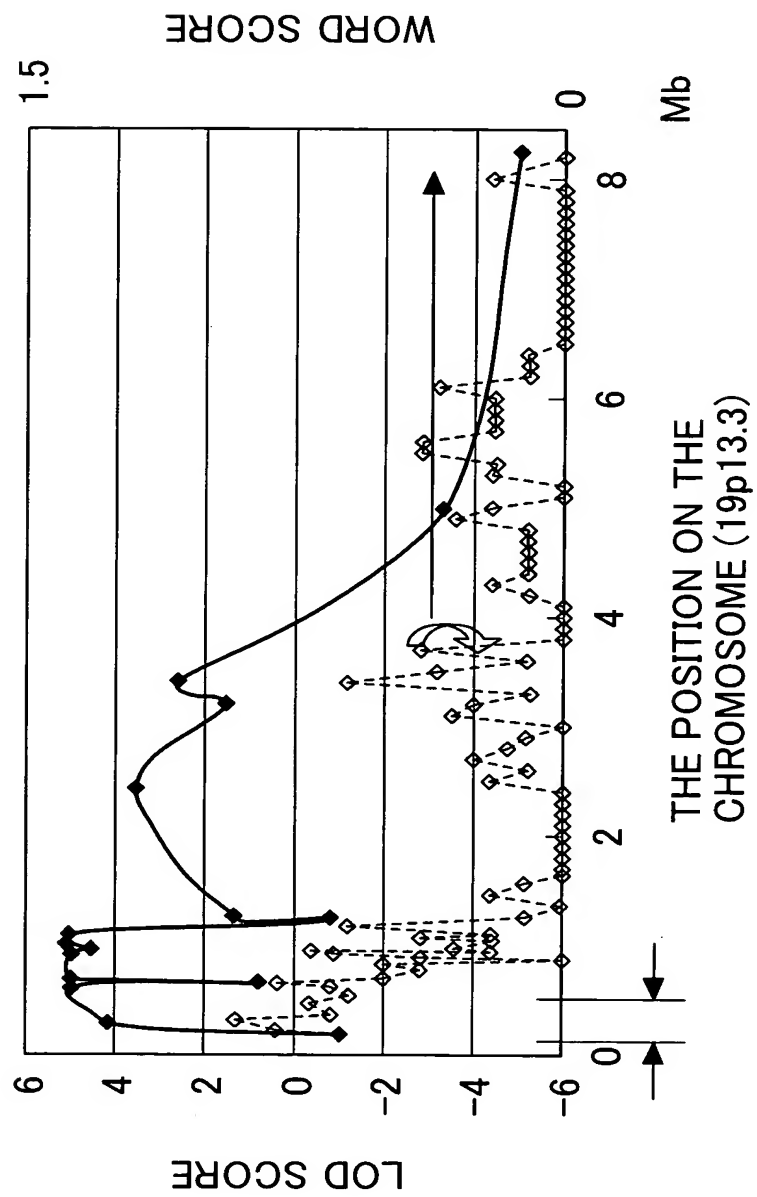


FIG.11



QUERY: IDIOPATHIC HYPOGONADOTROPIC
HYPOGONADISM

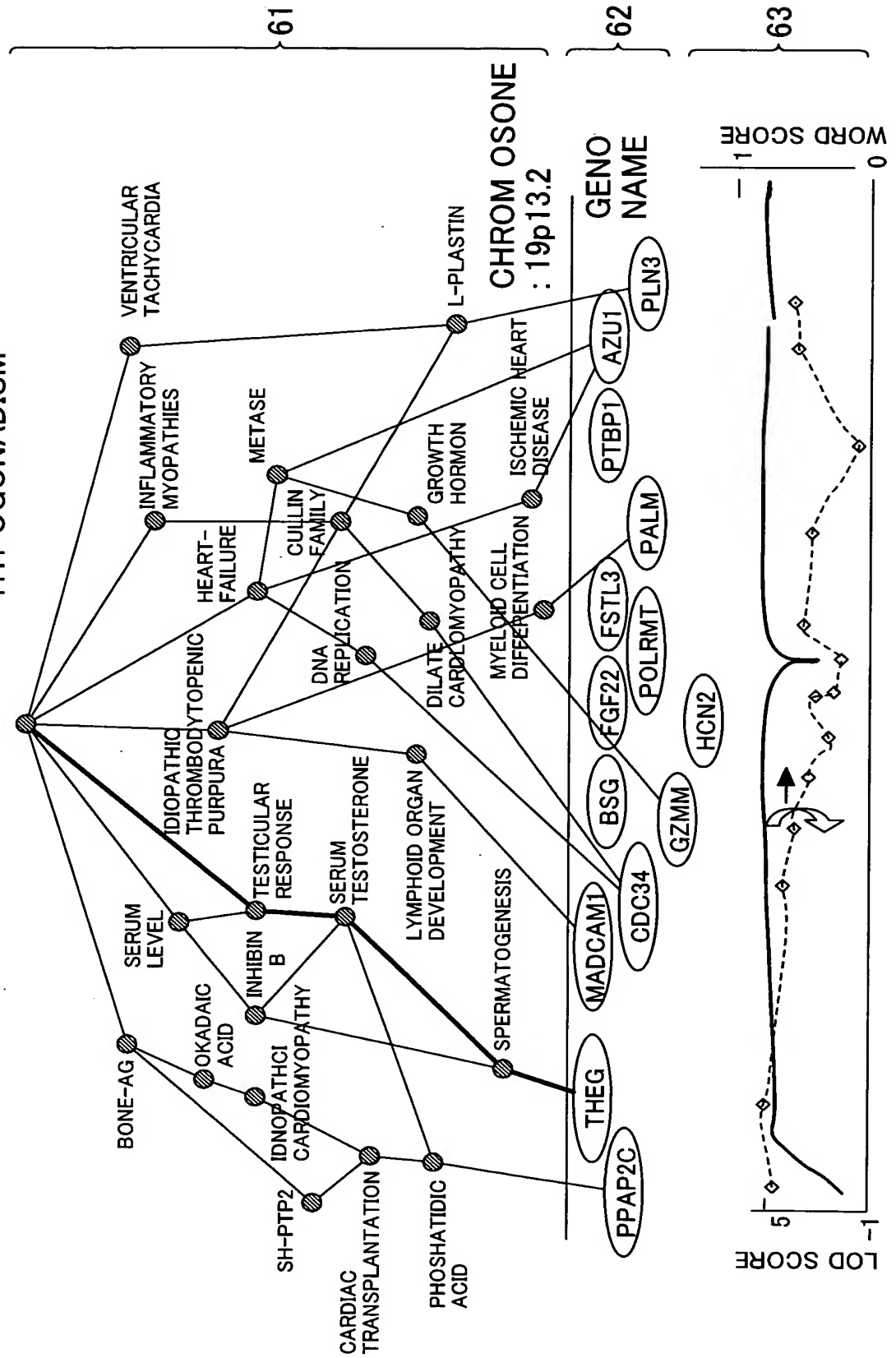


FIG.13

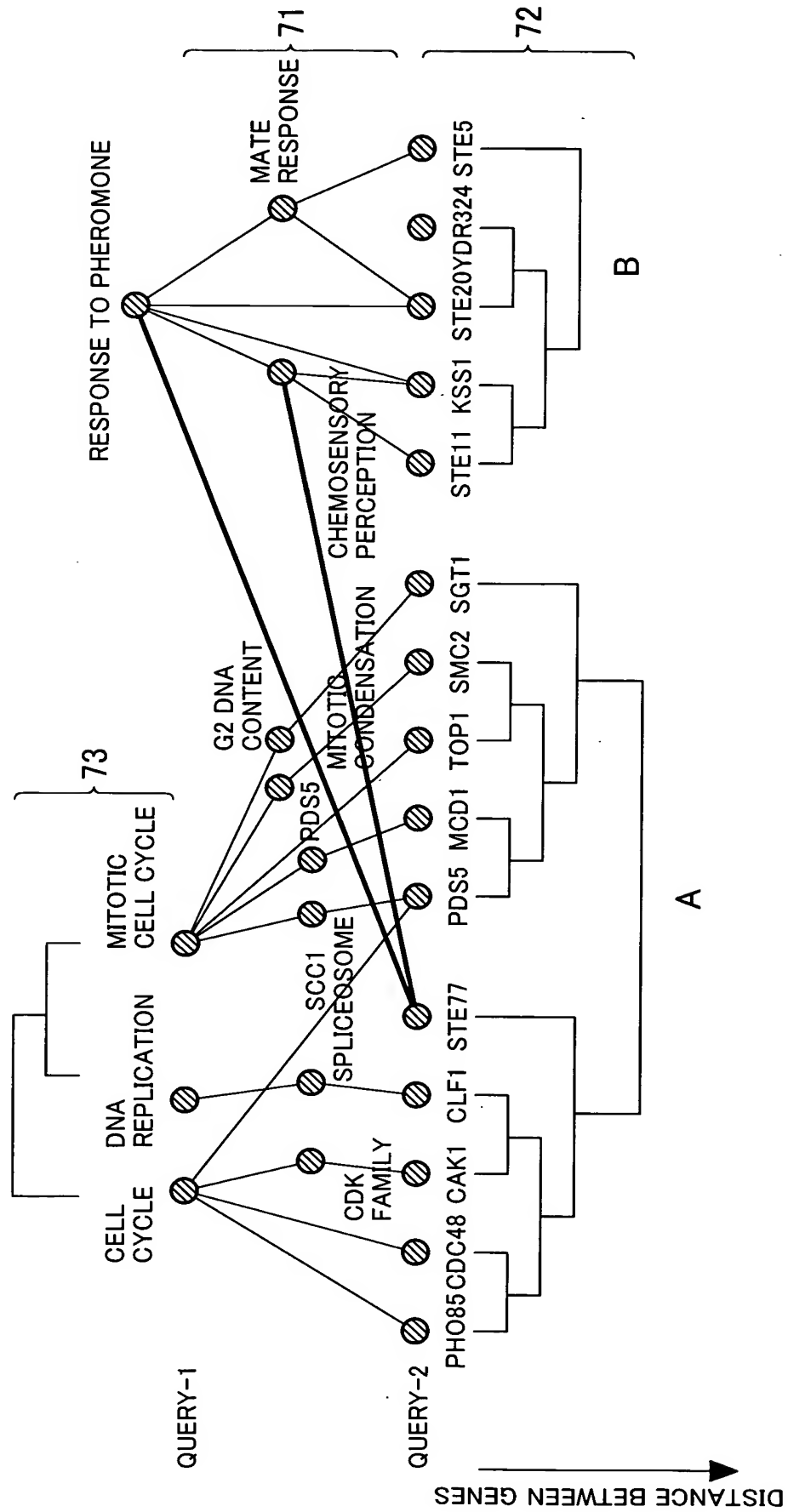


FIG. 14

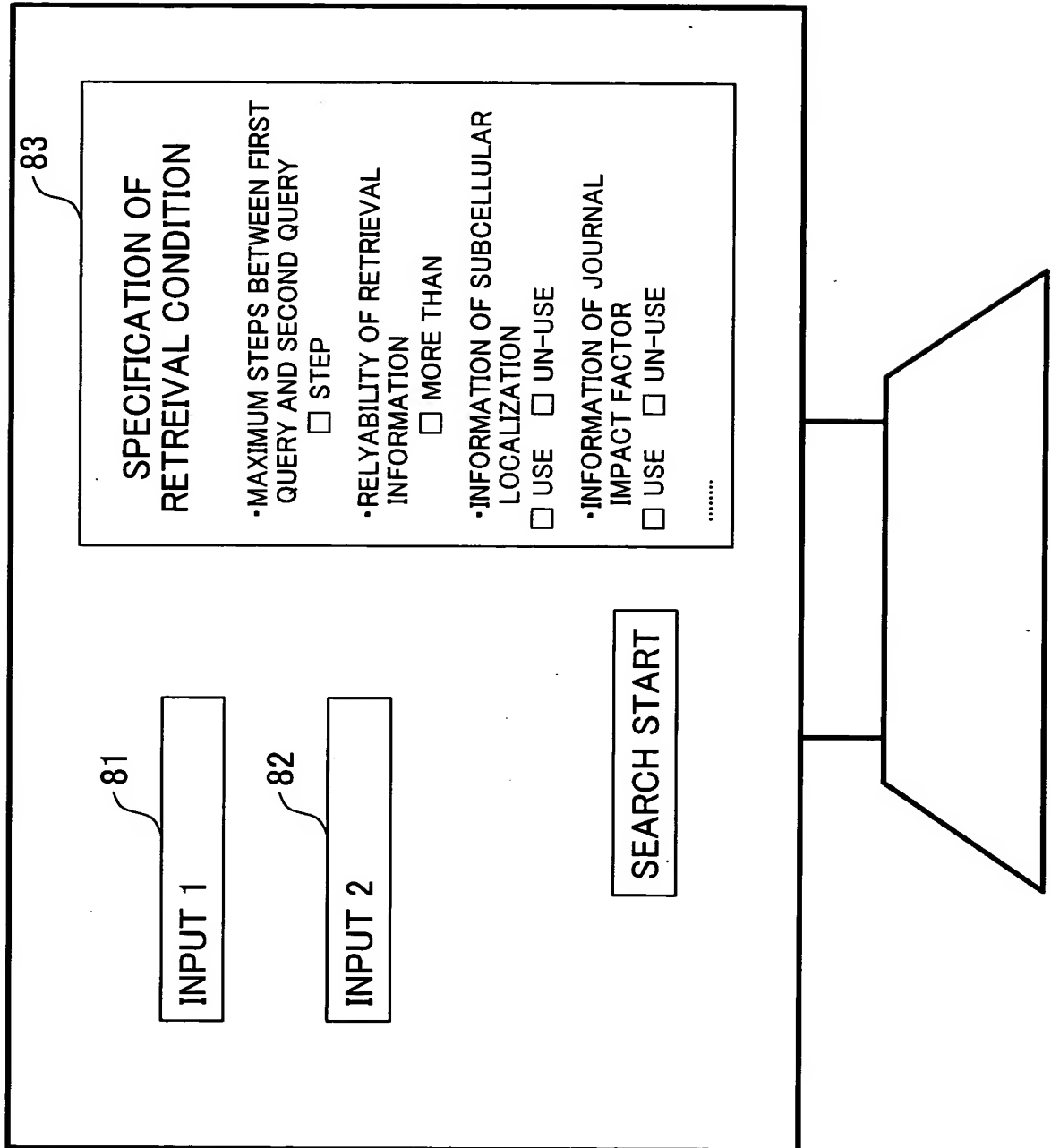


FIG.15

